

**AMENDMENTS TO THE CLAIMS**

1-45. (Cancelled)

46. (Currently amended) A ceramic coated fiber, comprising:

(a) a fiber, and

(b) ceramic, coated on the fiber,

wherein the ceramic has a BET surface area of at least  $200 \text{ m}^2/\text{g}$ ,

the ceramic comprises crystalline ceramic, and

the ceramic comprises 10 to 90% by weight of the ceramic coated fiber,

and

the ceramic comprises at least one member selected from the group consisting of  $\text{TiO}_2$  and  $\text{TiOS}$ .

47. (Currently amended) The ceramic coated fiber of claim 46, wherein the ceramic comprises  ~~$\text{TiO}_2$  and/or~~  $\text{TiON}$  having an anatase structure.

48. (Cancelled)

49. (Previously presented) The ceramic coated fiber of claim 46, wherein the ceramic has a BET surface area of  $200 \text{ m}^2/\text{g}$  to  $300 \text{ m}^2/\text{g}$ .

50. (Canceled).

51. (Previously presented) The ceramic coated fiber of claim 46, further comprising silver and/or palladium.

52. (Previously presented) The ceramic coated fiber of claim 46, wherein the ceramic has a BET surface area of  $200 \text{ m}^2/\text{g}$  to  $2000 \text{ m}^2/\text{g}$ .

53. (Previously presented) The ceramic coated fiber of claim 46, wherein the ceramic has a BET surface area of  $200 \text{ m}^2/\text{g}$  to  $500 \text{ m}^2/\text{g}$ .

54. (Previously presented) The ceramic coated fiber of claim 46, wherein the ceramic has a BET surface area of at least  $500 \text{ m}^2/\text{g}$ .